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in the true sense; such naturalists becoming fewer as the years pass.

The captains and the kings depart.

FORDYCE GRINNELL, JR.
PASADENA, CALIFORNIA

SCIENTIFIC NOTES AND NEWS

SIR HENRY ROSCOE celebrated his eightieth birthday on January 7 at Woodcote Lodge, West Horsley. His former pupils and friends have resolved to commemorate the occasion by presenting his bust to the Chemical Society of London. A deputation headed by Sir Edward Thorpe went to Woodcote and presented an address of congratulation.

THE twenty-fifth anniversary of Professor Charles Richet's appointment to the chair of physiology at the Faculté de médecine de Paris was celebrated on December 22. He was presented with a *Festschrift* containing some eighty contributions from distinguished physiologists, and addresses of congratulation were made.

CAPTAIN ROALD AMUNDSEN received the gold medal of the American Geographical Society on January 14, when he addressed in Carnegie Hall an audience of 3,000 persons. He will receive the gold medal of the Geographical Society of Chicago on February 3. He will be the first to receive this medal, as he was the first to receive the Culver Gold medal in 1907.

PROFESSOR GEORGE C. COMSTOCK, director of Washburn Observatory, University of Wisconsin, has been elected a fellow of the American Academy of Arts and Sciences.

DR. GEORG CANTOR, professor of mathematics at Halle, has been made an honorary doctor of the University of St. Andrews.

MAJOR SIR RONALD ROSS, F.R.S., has been appointed physician for tropical diseases to King's College Hospital, and will take up his duties in the autumn, after the removal of the hospital to Denmark Hill. Sir Ronald Ross is now professor of tropical sanitation in the University of Liverpool.

PROFESSOR FRANZ BOAS, of Columbia University, has been appointed lecturer in anthro-

pology at Harvard University for the second half year.

AT the recent meeting of the American Phytopathological Society at Cleveland the following officers were elected for 1913:

President—F. C. Stewart, New York Agricultural Experiment Station, Geneva, N. Y.

Vice-president—Haven Metcalf, U. S. Department of Agriculture, Washington, D. C.

Secretary-treasurer—C. L. Shear, U. S. Department of Agriculture, Washington, D. C.

Councillor—W. J. Morse, Agricultural Experiment Station, Orono, Me.

The society decided to hold its next annual meeting at Atlanta, Georgia, in conjunction with the American Association for the Advancement of Science.

PROFESSOR A. S. HITCHCOCK, systematic agrostologist, U. S. Department of Agriculture, has returned from the West Indies. He visited Jamaica, Trinidad, Tobago and, incidentally, Cartigena and Puerto de Colombia. In Jamaica 643 numbers of grasses were obtained, representing about 168 species, and including all except four of the species known from this island, and many species not hitherto recorded. From Trinidad 337 numbers were collected, representing 140 species, and from Tobago 90 numbers representing 65 species. Mr. Hitchcock was successful in recollecting nearly all the species whose type localities are in these islands.

PROFESSOR WILLIAM J. G. LAND, of the department of botany of the University of Chicago, has returned with a large collection of botanical specimens from Australia and the islands of the Pacific.

MR. A. C. VEATCH, formerly chairman of the Land Classification Board of the United States Geological Survey, has arrived at the Cosmos Club, Washington, D. C., from London. He expects to spend a short time in the United States looking for men to assist him in his geological investigations, which have extended to many parts of the world.

PROFESSOR J. E. DUDERDEN, Rhodes University College, Grahamstown, South Africa, has been invited by the government of British

East Africa to visit the protectorate to lecture and advise upon ostrich farming.

THE president of the British Board of Education has appointed an advisory council for the Science Museum, London. The council will be asked to advise the board on questions of principle and policy arising from time to time and to make an annual report on their proceedings to the board, together with any observations on the condition and needs of the museum which they may think fit to make. The following will be the first members of the council: Sir Hugh Bell, Bt., chairman; Mr. R. Elliott Cooper; Dr. J. J. Dobbie, F.R.S.; Mr. W. Duddell, F.R.S.; Mr. E. B. Ellington; Sir Maurice FitzMaurice; Sir Archibald Geikie, F.R.S.; Dr. R. T. Glazebrook, F.R.S.; Sir Alfred Keogh; Sir William Mather; Sir John Murray, F.R.S.; Sir William Ramsay, F.R.S.; Sir Henry E. Roscoe, F.R.S.; and Sir William H. White, F.R.S. The secretary will be Captain H. G. Lyons, F.R.S., of the Science Museum.

PROFESSOR CHARLES S. MINOT, who is now serving as the Harvard Austausch-Professor at Berlin, delivered from December 16 to 21 six lectures on "Moderne Probleme der Biologie" before the University of Jena. The subjects were:

1. The new cell doctrine.
2. Cytomorphosis.
3. The doctrine of immortality.
4. The development of death.
5. The determination of sex.
6. The conception of life.

The lectures were delivered before the university in the Aula and were attended by both students and professors. At the third lecture the Grand-duke of Saxe-Weimar was present in his official capacity as rector of the university. It was at his suggestion that the arrangement was made with the Prussian ministry of education by which the Harvard professor was to visit Jena, as an acknowledgement of the visit to America of Professor Eucken, who is a member of the philosophical faculty of Jena. It is the first time that an American exchange professor has served offi-

cially at any German university besides that at Berlin. Professor Minot's lectures were delivered in German and will be published shortly by the firm of Gustav Fischer.

UNDER the auspices of the department of geology of Columbia University, Professor William Morris Davis delivered a series of three lectures from January 14 to 16 on "Dana's contribution to Darwin's theory of coral islands," "The Valley of the Armançon: a study in physiographic analysis," and "The principles of geographical exposition." On January 17 Mr. Donald F. MacDonald, geologist of the Panama Canal, addressed the students of the department on "The general geology of the Panama Canal Zone."

DURING the week of December second, Dr. S. W. Williston, professor of vertebrate paleontology in the University of Chicago, gave the annual Sigma Xi lectures in a circuit composed of Washington University, University of Missouri and the University of Kansas. His subjects were "The Earliest Land Animals" and "The Evolution and Distribution of the Earliest Land Animals."

DR. GEORGE C. COMSTOCK, of the University of Wisconsin, gave the Sigma Xi address at Purdue University on January 17, his subject being "The Study of the Stars."

DR. J. A. DETLFSSEN, of the Agricultural College of the University of Illinois, has delivered a series of lectures before the Kansas Agricultural Board and University on "Genetics in the Agricultural College."

PROFESSOR H. J. WHEELER, manager of the agricultural service bureau of the American Agricultural Chemical Company, Boston, Mass., lectured on the eighth inst. before the New Jersey State Board of Agriculture on "Some Interrelations of Plants, Soils and Fertilizers."

MR. S. A. COURTIS, head of the department of science and mathematics in the Home and Day School of Detroit, and supervisor of testing work in the Boston public schools, spoke on January 17, under the auspices of the Harvard chapter of Phi Delta Kappa, an honor society in the division of education. Mr.

Courtis has tested the mathematical ability of several thousand school children in New York and Boston, and described the results of his tests.

DR. R. RUGGLES GATES, lecturer in biology, St. Thomas Hospital, London, is giving a course of lectures on heredity and mutations at the Imperial College of Science and Technology.

THE fourth centenary of the birth of Andreas Vesalius, the pioneer of modern anatomy, will be celebrated this year with appropriate ceremonies at Brussels.

THADDEUS S. C. LOWE, of Los Angeles, chief of the aeronautic corps of the U. S. Army during the civil war, died on January 16, in his eighty-first year. Mr. Lowe made inventions in various fields, including balloons and instruments for atmospheric investigation, and artificial ice, metallurgical and water-gas apparatus. He built the Mount Lowe railway and established the Mt. Lowe Observatory in the Sierra Madre Mountains.

PROFESSOR GEORGE AUGUSTUS KOENIG, professor of chemistry at the Michigan College of Mines since 1892, and previously professor of mineralogy and metallurgy in the University of Pennsylvania, died on January 14, aged sixty-eight years.

M. LOUIS PAUL CAILLETET, the distinguished French chemist, known especially for his work on iron and acetylene and on liquefaction of gases, has died in his eighty-first year.

THE death is also announced of M. Léon Teisserenc de Bort, the French meteorologist, known especially for his work with captive balloons.

DR. OTTO SCHOETENSACK, professor of anthropology at the University of Heidelberg, died on December 23 in his sixty-third year.

DR. YUJIRO MOTORA, professor of psychology in the University of Tokyo, died on December 12. Dr. Motora took the doctor's degree in psychology about twenty-five years ago at Johns Hopkins University.

FREDERIK HJALMAR JOHANSEN, who accompanied Dr. Nansen in sledge journey across the North Polar ice, and Captain Amundsen

on his recent Antarctic expedition, has died at the age of forty-six years.

WE regret also to announce the death of Dr. E. Tavel, professor of surgery at Bern, and Dr. G. Tilling, professor of surgery at St. Petersburg.

UNIVERSITY AND EDUCATIONAL NEWS

THE Rev. John Henry Ellis, of Collingham-gardens, South Kensington, has left, subject to his wife's life interest, the residue of his property, which will amount to not less than £90,000, to Cambridge University, "to be enjoyed and applied both as to capital and income by them for the general purposes of the university, in such manner as they may think fit."

AN anonymous graduate has given Harvard University \$80,000 for a building for the department of music, and other graduates and friends have subscribed as an endowment fund for its maintenance more than \$50,000. It will be used for the courses in the theory and history of music, the only branches of that subject which are taught at Harvard. It will have a hall of suitable size for chamber concerts, in which will probably be installed a pipe organ. The building will also be the headquarters for the musical organizations of the university.

YANKTON COLLEGE has received from Mr. James J. Hill an offer of \$50,000 for increasing the endowment, conditioned on the raising of \$200,000 in addition, within two years.

BATES COLLEGE dedicated on January 14 its new science building, Carnegie Hall. President George C. Chase gave a brief historical address, outlining the growth of the scientific departments at Bates in recent years, and telling of the efforts necessary to raise the \$100,000 in order to claim Mr. Carnegie's gift of \$50,000. Professor William T. Sedgwick, of the Massachusetts Institute of Technology, gave the formal address, taking as his theme, "The Interpretation of Nature."

At the winter meeting of the board of trustees, Cornell University, held in New York on January 18, the election of a dean of the faculty of arts and sciences was referred to